REMARKS

The application has been amended and is believed to be in condition for allowance.

Claim 2 has been amended to improve the claim's grammar.

The claims were rejected as anticipated by CHANG et al. 6,947,995.

With reference to CHANG Figure 1, the Official Action reads claim 1 onto CHANG as follows:

A portable terminal 100, a printer system 106, and a network server system 110/112 connected to a network 108.

The Official Action indicates that the next recitation of "wherein said portable terminal obtains a read data from said network server system and outputs i) a print request to said printer system to print said read data," is disclosed by column 8, lines 12-29 and column 9, line 39 – column 10, line 10. These passages are reproduced below.

Column 8, lines 12-29:

FIG. 1 is a block diagram of a pervasive output system **98** that can implement the process and apparatus of present invention. In one implementation, electronic system **98** includes an information apparatus **100**, an application server **110** and a content server **114** (sometimes referred to as "network nodes") that are connected together through network **108**. Electronic system **98** may also include an output device **106** that communicates with information apparatus **100** through a communication link **116**.

Network **108** generally refers to any type of wire or wireless link between multiple computing devices. Examples of network **108** may include, but are not limited to, a local area network (LAN), a wide area network (WAN), or a combination of

networks. In one embodiment of the present invention, network **108** may include the Internet. In another embodiment, network **108** may contain multiple networks, including local area networks or wide area networks such as the Internet.

The above column 8 passage seems to fairly relate to Figure 1 and a portable terminal 100, a printer system 106, and a network server system 110/112 connected to a network 108. However, there is no disclosure contained therein of "wherein said portable terminal obtains a read data from said network server system and outputs i) a print request to said printer system to print said read data,".

Column 9, lines 39 - 60:

Information apparatus **100** may contain a plurality of applications to implement its feature sets and functionalities. As an example, a document browsing application **103** may be implemented to help a user view and perhaps edit, partially or entirely, digital documents written in certain format or language (e.g., Page description language, markup language, etc.). Digital documents may be stored locally in the information apparatus **100** or in a network node (e.g., in content server **114**). An example of a document browsing application is an Internet browser such as Internet Explorer, Netscape Navigator, or a WAP browser. Such browsers may use one or more standard protocols (e.g., HTTP, WAP, web clipping, I-Mode, etc.) to retrieve and display digital content written in mark-up languages such as HTML, WML, XML, CHTML, HDML, among others. Other software applications may also constitute examples of the document browsing application of the present invention. For example, a document editing software such as Microsoft Word™ also allows users to view and edit digital documents that have various file extensions (e.g., doc, rtf, html, XML etc.) whether stored locally in the information apparatus or in a network node.

This above passage appears from lines 39-60 of column 9 and generally relates to the portable terminal 100 being able to access documents and edit documents. However, there is no

disclosure contained therein of "wherein said portable terminal

obtains a read data from said network server system and outputs

i) a print request to said printer system to print said read

data,". Column 9, line 61 - column 10, line 10 follows:

> In some instances restrictions may be imposed on the
> format or size of digital content that may be transmitted to
> information apparatus **100**, such as when information apparatus **100**
> has limited processing power, screen size, memory space, or a
> limited application, or when bandwidth is a valuable resource in
> the transmission link to information apparatus **100** (such as in
> some wireless data network). As a result, there are situations
> where a user may not be able to view on information apparatus **100**
> the full content of a digital document in its original form using
> a document browsing application. For example, some images,
> tables, graphics, fonts and formats in a digital document may be
> "clipped" out or completely or partially altered from the
> original content before or during the transmission process. Such
> restrictions may be, sometimes, imposed by a service providing
> the content, or by the application rendering the content, or by
> the user to avoid slow transmission etc.

The above passage relates to those situations where the

portable terminal may not be able to view the full content of a

document in its original form. This may be a situation where the

user of the portable terminal may want to print a copy of the

document; however, there is no disclosure contained therein of

"wherein said portable terminal obtains a read data from said

network server system and outputs i) a print request to said

printer system to print said read data,".

Thus, this feature of the recited invention, i.e., the

portable terminal outputting "a print request to said printer

system to print said read data" is not disclosed by the offered

passages of CHANG.

Claim 1 next recites "the print request comprising an

order command data composed of a print command data (21), an

identification and password (16), and an internet address data

(17) identifying an internet URL location where the read data is

located, and ii), at the same time, transmits the identification

and password (16) and the address data (17) through said network

to the network server system,". For these features, the Official

Action has offered column 5, lines 20-52; column 7, lines 7-67;

and column 10, line 11 – column 11, line 17.

The first passage of these three passages relates to

defining the term "object" and is reproduced below:

It is important to note that the term object is not
limited to software or data as its media. Any entity containing
information, descriptions, attributes, data, instructions etc. in
any computer-readable form or medium such as hardware, software,
files based on or including voice, text, graphics, image, or
video information, electronic signals in analog or digital form,
etc., are all valid forms of object definition.

An object may also contain in one of its fields or
attributes a reference or pointer to another object, or a
reference or pointer to data and or content. (The terms reference
and pointer may be used interchangeably herein.) A reference to
an object or any entity or content may include one or more, or a
combination of, pointers, identifiers, names, paths, addresses or
any descriptions relating to a location where an object, data, or
content can be found. Examples of reference may include universal
resource identifier scheme (URI), uniform resource locator (URL),
IP address, file names, directory pointers, software object and
component pointers, and run-time address, among others.

By way of example, a document object described in the
present invention may contain or encapsulate one or more digital
documents and/or one or more pointers or references to digital
documents. Therefore, moving or passing document objects in
connection with the present invention may include moving or
passing (1) actual digital content or (2) reference to the actual
content or (3) both. It will be appreciated that the document

object can be quite small and lightweight if it does not also contain the digital document. These are examples of valid implementations and may be used in the description of present invention. Different implementations in different situations can be easily discerned and recognized by persons of ordinary skill in the art.

Please, however, note that although many possible attributes of an object are disclosed by the passage, the passage itself does not specifically describe any step/element disclosed by Figure 1. Put another way, this passage only means that an "object" may include features described, not that any object would include or need include any of these described features. The second of the three offered passages is similar in that this second passage also describes attributes and information that might be contained in a "job object" and in a "document object".

Note that the term "job object" is discussed beginning at the bottom of column 6 and continues through line 28 of column 7, (emphasis added):

A job object may contain attributes and information that describe an output job. **A user may provide some or all of these attributes, preferences and or information about the output job consciously by, for example, specifying his/her preference through a GUI or through defaults in his/her information apparatus**. Alternatively or in combination, a job object may be obtained without active user intervention. In one instance, default parameters may be provided, obtained, negotiated or calculated without user knowledge.

Examples of attributes and information contained in a job object may include one or more of the following, among others. **Each of following fields may be optional**, and furthermore, each of the following fields or attributes may or may not exist in a particular implementation (e.g., may be empty or NULL):

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- Preferences such as print quality, page layout, number of pages, number of cards per page, output size, color or grayscale, among others.

- Information on security, authentication, payment, subscription, identification among others.

- Information on priority or quality of service.

- Status information of the output job or process.

- Job instructions such as queuing, cancellation, execution, output priority among others.

- Version or date of the job object.

- Sets of default parameters or instructions. The defaults may be stored in an output device, in the information apparatus, or in any network nodes.

- Pointer or reference to any one of the above mentioned information, instructions, preferences and defaults.

- Pointer or reference to another object or objects.

Thus, there is disclosed job attributes that might be, or might not be, used.

The next portion of the offered passage concerns possible attributes of a document object, (emphasis added):

Document Object

A document object **may contain** attributes and fields that describe a digital document and or reference or references to digital document or documents. The term digital document as used herein may refer to any digital content or data content that an output device may output. A digital document may contain text, graphics, image, sound, voice, forms, and video, among other content types. Examples of a digital document may be any one or combination of file types: HTML, VHTML, PostScript, PCL, XML, PDF, MS Word, PowerPoint, JPEG, MPEG, GIF, PNG, WML, VWML, CHTML, HDML, ASCII, 2-byte international coded characters, etc. **A digital document can be composed of any format, language, encoding, data or combination**, and the digital document may be partially or totally proprietary or otherwise. A digital document may be used interchangeably with the term output content or data content in the descriptions of present invention.

A document object may contain one or more of the following attributes, fields, or descriptions. Each of the following fields may be optional, and furthermore, each of the following fields or attributes may or may not exist in a particular implementation (e.g., may be empty or NULL).

- The actual digital document or output content.

- A pointer or reference to a digital document or output content and or instructions of where a digital document can be found and or retrieved. A digital document may be located in a user's information apparatus, in an application, or anywhere in a network node (e.g., in a content or file server). Using a pointer or reference to a digital document may reduce the size of the document object. Therefore, this may be beneficial, for example, when passing or uploading a document object from information apparatus to server application through a narrow bandwidth communication link.

- Date and version of the digital document.

- A history with the dates and descriptions of any changes, modifications, and updates made to the document since its creation

Thus, this above passage makes clear what document objects that CHANG invention may be used with. But, this passage does not say how the CHANG invention is used with such document objects.

Again, the claim recitation is that the portable terminal outputs "the print request comprising an order command data composed of a print command data (21), an identification and password (16), and an internet address data (17) identifying an internet URL location where the read data is located, and ii), at the same time, transmits the identification and password (16) and the address data (17) through said network to the network server system,".

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Although definitions have been provided in the first
two offered passages of CHANG, features of this recitation are
not found in those passages. The last of the three passages is
column 10, line 11 – column 11, line 17 (emphasis and annotations
added in bold):

> To address the difficulties described above, information
> apparatus **100** includes a pervasive output client application **102**
> that provides pervasive output capability of the present
> invention. Client application **102** may include software and data
> that can be executed by the processing unit of information
> apparatus **100**. Client application **102** may be implemented as a
> stand-alone software application or as a part or feature of
> another application software, or in the form of device driver,
> which may be invoked, shared and used by other application
> software. Pervasive output client application **102** may also have
> means to invoke other applications (e.g., a document browsing
> application, a communication manager, etc.) to provide certain
> feature sets, as described below. Client application **102** may be
> variously implemented in an information apparatus **100** and may run
> on different operating systems or platforms. As an example,
> client application **102** may include one or more of the following
> functionalities:
>
> - Obtain output device object as a result of communication or
>   negotiation with output device **106**. **[note there is no
>   disclosure of how this is accomplished]**
>
> - Obtain document object (1) from user input or selection, or
>   (2) from other applications (e.g., a document browsing
>   application) residing in the information apparatus **100**.
>
> - Coordinate with a server application **112** residing in
>   application server **110** to manage the process of
>   communication and transmission of objects or data to and
>   from application server **112**. **[again, note there is no
>   disclosure of how this is accomplished]**
>
> - Coordinate with output device **106** that include an output
>   controller **104** to manage the process of transmitting output
>   data (or print data in the case of printers) received from
>   the server application **112** for output. **[again, note there
>   is no disclosure of how this is accomplished]**
>
>
> The client application may also optionally comprise one
> or more of the following functionalities:

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• Communicate directly or indirectly (such as through an operating system or component or object model or message, etc.) with other applications residing in the same information apparatus **100** to obtain objects, data, and or content needed, or relating to the pervasive output process of present invention.

• Directly or indirectly manage and utilize functionalities provided by hardware components residing in its host information apparatus such as the communication unit, storage unit, memory unit, etc.

• Provide a graphical user interface (GUI) in its host information apparatus **100** to interact with user.

• Obtain job object. Job object may be obtained (1) by user input through a GUI, or (2) by using default values stored in a network node or in the output device, or (3) the combination of the above. Default values may be pre-set or may be obtained calculated or generated by the client application as result of communication or negotiation between client application **102**, output device **106** and or server application **112**.

• Launch or provide an interface, session or emulation for server application **112**.

• Further process output data or print data received from server application **112** before sending the data to output device **106** for final output. The processing may include converting the output data into a form (e.g., format, language, or instruction) more acceptable to or compatible with the associated output device **106**. The processing may also include at least in part one or more raster image processing operations such as rasterization, scaling, color management, color conversion, halftoning, compression, decompression, etc.

• Launch, invoke, integrate or involve a helper application to assist at least in part in the processing of the output data.

The above functionalities and process of pervasive output client application **102** are described in further detail in the pervasive output process with reference to FIG. **4**.

Thus, although there is lengthy discussion that the

CHANG system can be used in many ways (although not detailed),

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there is no disclosure of "said portable terminal ... [outputting] i) a print request to said printer system to print said read data, the print request comprising an order command data composed of a print command data (21), an identification and password (16), and an internet address data (17) identifying an internet URL location where the read data is located, and ii), at the same time, transmits the identification and password (16) and the address data (17) through said network to the network server system,".

Therefore, this feature of the invention is also not disclosed.

Claim 1 recites that "said printer system outputs a transfer request to said network server system in response to said print request,". Recall that output device 106 of Figure 1 has been offered as the recited printer system. Although there is disclosure of the client application 102, running on the portable terminal 100, coordinating various printing actions, there is no disclosure of 1) the printer system outputting a transfer request to the network server system, 2) the transfer request being made by the printer system in response to a print request received by the printer system from the portable terminal. Therefore, this feature is also not disclosed.

Although CHANG does disclose print jobs being sent from the network to the printer, the recited steps are not disclosed.

Reconsideration and allowance of claim 1 are therefore respectfully requested.

Claim 2

Claim 2 recites: "(b) outputting a order command data showing a request for printing said read data from said portable terminal to a printer system and also outputting the order command data from said portable terminal to said network server system;".

Although CHANG teaches the portable terminal sending a command for printing to a network server (application server 110), applicant cannot find disclosure that the CHANG invention sends an order command data for printing to both a printer system and to a network server system. Thus, this feature is not believed to be disclosed.

Claim 2 also recites "wherein, a printing fee is charged based on said order command data sent by said portable terminal to said network server system." CHANG column 27 discloses a charge being made for printing. But, this disclosure is general and appears to relate to a local charge being made by printer 104, i.e., printing done by the printer, and not based on the "order command data sent … to said network server system." Thus, this feature is not believed to be disclosed.

In this regard, Figures 9A-9F are referenced, together with column 32, line 55 - column 35, line 20.

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Figure 9A shows "a user is reading a news article published on the Internet using a document browsing application in information apparatus 100."

At column 33, beginning at line 16: "When the user selects Print function control 902, the client application 102 may be invoked or launched. ..., the user may be able to choose to output ... the full digital document in its original form (e.g., with photo 900)."

Figure 9B shows possible printers that the user may select.

Figure 9C shows a charge associated with printing to the selected printer. In CHANG, the payment arrangement is made prior to any print order, i.e., the printing is paid for in advance of the actual print order.

Figure 9D illustrates a print request (a job object). As per column 34, beginning at line 36, "the client application 102 [of the portable terminal 100] sends a composite message 430 to an application server 110. The composite message 430 may include a document object, a printer object, and a job object. The application server 110 may contain server application 112. In ... After it has finished processing the output content and has generated the necessary print data, the server application 112 transmits the print data to the selected output device 106 through the user's information apparatus 100."

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Thus, the print job is sent from the network server to the printer. However, note that there is no "order command data showing a request for printing said read data from said portable terminal to a printer system" as recited by claim 2.

Further, although the printing is paid for, the print cost is based on a charge per page (Figure 9C) and the number of pages actually printed. There is no disclosure of "wherein, a printing fee is charged based on said order command data sent by said portable terminal to said network server system" as recited.

Thus, claim 2 is not anticipated.

As to claim 5, although CHANG teaches wireless connections, CHANG does not disclose "(e) **outputting a transfer command data** showing a request for sending said read data **from said printer system to said network server system**, based on said order command data;". Applicant does not see that the printer sends any commands to the network server.

As to claim 7, although the portable terminal sends the network server information concerning the printer, there is no disclosure of the printer outputting a transfer command data to the network server, "wherein said transfer command data includes said address data and a printer ID data which shows an address of said printer system and languages usable for said printer system."

The recitations of claim 8 are not found in CHANG. CHANG does disclose charging to printing, but not in the manner recited.

CHANG does not output "**a charging data** used for a charge to said portable terminal by said network server system and said address data **to said network server system**,".

CHANG does not teach the printer sending to the network server "said transfer command data further include[ing] said charging data,".

Applicant does not see disclosure of "said network server system charges to said portable terminal for the support of obtaining said printable data."

Therefore, claim 8 is not believed to be anticipated.

Claim 18-19 recite a network connection provider (18) charging a printing fee to a user. Applicant does not see this disclosed by CHANG. Further claim 19 requires "the printing fee being based on access data containing within **the order command data sent from the portable terminal to the network server system**," This was not found in CHANG.

These claims are also believed to be patentable.

Claim 12

Claim 12 is directed to a printer and recites receiving wireless print order command data, ... the print order command data comprising a print command data (21), an identification and password (16), and **an internet address data (17) identifying an**

internet URL location where the read data is located;. CHANG was not found to disclose the printer receiving a print command that comprised an internet URL location where the read data is located. In CHANG the portable terminal sends and request to the network server, the network server then finding the read data and sending the print file back to the printer.

The claim also requires the printer include "a network connection section which … transfers a transfer command data showing a request for sending a printable data ". CHANG was not found to disclose the printer sending such a transfer command data.

Therefore, claim 12 is believed to not be anticipated.

Claim 14 requires that the transfer command data being sent from the printer to the network server "includes said address data and a printer ID data showing an address of said printer system and languages usable for said printer system." CHANG is not found to disclose the recited address data and printer ID being sent from the printer to the network server within a transfer command data.

Claim 15 requires the printer send to the network server "said transfer command data further include[ing] a charging data used for charging for connection with said network server system." This is not found in CHANG.

Therefore, each of the claims is also not anticipated by CHANG.

In view of the above, reconsideration and allowance of all the pending claims are respectfully requested.

Applicant believes that the present application is in condition for allowance and an early indication of the same is respectfully requested.

The Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 25-0120 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17.

Respectfully submitted,

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